

REMARKS

Claims 1-26 are pending. Claims 1, 3-4, 10, 12-13 and 19 are amended herein. No new matter is added as a result of the claim amendments.

112 Rejections

The instant Office Action states that Claims 2-3, 11-12 and 20-21 are rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. The instant Office Action states that Claims 2-3, 11-12 and 20-21 are also rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. Specifically, the instant Office Action states that the specification does not support the limitation "operations that involve memory other than microprocessor registers that is private to a microprocessor."

Applicants respectfully submit that support for the cited limitation can be found at least on page 9, lines 24-25, in light of page 7, lines 5-6. In other words, according to lines 24-25 on page 9, operations can involve memory that is private to a microprocessor ("private memory"), and according to lines 5-6 on page 7, private memory can be other than a microprocessor register.

Therefore, Applicants respectfully submit that the basis for rejecting Claims 2-3, 11-12 and 20-21 under 35 U.S.C. § 112, first paragraph, is traversed.

102 Rejections

The instant Office Action states that Claims 1, 4-8, 19 and 22-25 are rejected under 35 U.S.C. § 102(e) as being anticipated by Reilly et al. (U.S. Patent No. 6,925,552; hereinafter "Reilly"). The Applicants have reviewed the cited reference and respectfully submit that the present invention as recited in Claims 1, 4-8, 19 and 22-25 is not shown or suggested by Reilly.

Applicants respectfully submit that Reilly does not show or suggest the present claimed invention recited in independent Claims 1 and 19. Specifically, Applicants respectfully submit that Reilly does not show or suggest "suspending a non-null first subset of said first set of speculative operations, wherein speculative operations in said first subset are not permitted during said suspending; and exiting said first mode and entering a second mode of speculative operation in response to said event, said second mode permitting speculation of a non-null second subset of said first set, wherein said second subset comprises speculative operations not in said first subset" as recited in independent Claim 1, nor does Reilly show or suggest a "computer system [that] implements a first mode of speculative operation, a second mode of partial speculative operation, and a third mode in which said speculative operations are suspended in entirety, wherein said first mode permits speculation of a set of speculative operations, and wherein in said second mode a non-null first subset of said set of speculative operations are suspended leaving enabled a non-null second subset of said set of speculative operations" as recited in independent Claim 19. If indeed Reilly teaches a first mode and a second mode of speculative operation as alleged in the instant Office Action, Applicants respectfully submit that Reilly does not show or suggest suspending certain ones

of the set of speculative operations permitted in the first mode, leaving remaining ones of the set of speculative operations enabled in the second mode, as claimed.

Accordingly, Applicants respectfully submit that the basis for rejecting Claims 1 and 9 under 35 U.S.C. § 102(e) is traversed. Applicants also submit that the basis for rejecting Claims 4-8 and 22-25 under 35 U.S.C. § 102(e) is traversed, as Claims 4-8 and 22-25 are dependent on Claim 1 or 19 and recite additional limitations.

103 Rejections

Claims 2-3 and 20-21

The instant Office Action states that Claims 2-3 and 20-21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Reilly. The Applicants have reviewed the cited reference and respectfully submit that the present invention as recited in Claims 2-3 and 20-21 is not shown or suggested by Reilly.

Claims 2-3 are dependent on independent Claim 1 and recite additional limitations, and Claims 20-21 are dependent on independent Claim 19 and recite additional limitations. Hence, by demonstrating that the cited reference does not show or suggest the limitations of Claims 1 and 19, it is also demonstrated that the cited reference does not show or suggest the limitations of Claims 2-3 and 20-21.

As presented above, Applicants respectfully submit that Reilly does not show or suggest the limitations of Claims 1 and 19. Therefore, Applicants

respectfully submit that Claims 1 and 19 are allowable over the cited reference. Accordingly, Applicants also submit that the basis for rejecting Claims 2-3 and 20-21 under 35 U.S.C. § 103(a) is traversed, as Claims 2-3 and 20-21 are dependent on Claim 1 or 19 and recite additional limitations.

Claims 9 and 26

The instant Office Action states that Claims 9 and 26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Reilly in view of "The Transmeta Code Morphing™ Software: Using Speculation, Recovery, and Adaptive Retranslation to Address Real-Life Challenges" (hereinafter "Dehnert"). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 9 and 26 is not shown or suggested by Reilly and Dehnert, alone or in combination.

Claim 9 is dependent on independent Claim 1 and recites additional limitations, and Claim 26 is dependent on independent Claim 19 and recites additional limitations. Hence, by demonstrating that the cited references do not show or suggest the limitations of Claims 1 and 19, it is also demonstrated that the cited references do not show or suggest the limitations of Claims 9 and 26.

As presented above, Applicants respectfully submit that Reilly does not show or suggest the limitations of Claims 1 and 19. Applicants also submit that Dehnert does not overcome the shortcomings of Reilly. While Dehnert appears to describe speculation, Dehnert (even in combination with Reilly) does not show or suggest the limitations of Claims 1 and 19 that are cited above.

Therefore, Applicants respectfully submit that Claims 1 and 19 are allowable over the cited references. Accordingly, Applicants also submit that the basis for rejecting Claims 9 and 26 under 35 U.S.C. § 103(a) is traversed, as Claims 9 and 26 are dependent on Claim 1 or 19 and recite additional limitations.

Claims 10-18

The instant Office Action states that Claims 10-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Dehnert in view of Reilly. The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 10-18 is not shown or suggested by Dehnert and Reilly, alone or in combination.

By rationale similar to that already presented, Applicants respectfully submit that Dehnert and Reilly, alone or in combination, do not show or suggest "suspending a non-null first subset of said set of speculative operations, wherein said first subset does not include all of said speculative operations and wherein speculative operations in said first subset are not permitted during said suspending; and executing forward from said speculation boundary according to a partial speculation mode that permits a non-null second subset of said set of speculative operations, wherein said second subset comprises speculative operations not in said first subset and wherein said partial speculation mode is used in lieu of suspending said set of speculative operations in entirety," as recited in independent Claim 10.

Accordingly, Applicants respectfully submit that the basis for rejecting Claim 10 under 35 U.S.C. § 103(a) is traversed. Applicants also submit that the

basis for rejecting Claims 11-18 under 35 U.S.C. § 103(a) is traversed, as Claims 11-18 are dependent on Claim 10 and recite additional limitations.

Conclusions

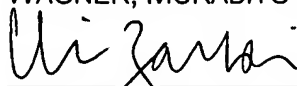
In light of the above remarks, Applicants respectfully request reconsideration of the rejected claims.

Based on the arguments presented above, Applicants respectfully assert that Claims 1-26 overcome the rejections of record and, therefore, Applicants respectfully solicit allowance of these claims.

The Examiner is invited to contact Applicants' undersigned representative if the Examiner believes such action would expedite resolution of the present Application.

Date: 11/9/06

Respectfully submitted,
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